2633

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of	:	Doron HANDELMAN
Serial No.	:	10/057,991
Filed	:	January 29, 2002
For	:	Optical Packet Switching Apparatus and Method

42

INFORMATION DISCLOSURE STATEMENT

Director of the United States Patent and Trademark Office
US Patent and Trademark Office
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Sir:

In accordance with 37 CFR 1.97, we enclose a copy of the following PTO Form SB/08A listing references which may be material to the patentability of the present application.

Also enclosed are copies of the references cited. These are being submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. The Examiner is requested to make these citations of official record in this application.

This Information Disclosure Statement under 37 CFR 1.56 is not to be construed as a representation that a search has been made, that additional matter which is material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Respectfully submitted,

Sol Sheinbein
Registration No. 25,457
Attorney for Applicant

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Sheet	1	of	8

Complete if Known	
Application Number	10/057,991
Filing Date	January 29, 2002
First Named Inventor	Handelman
Group Art Unit	
Examiner Name	
Attorney Docket Number	

U.S. PATENT DOCUMENTS

Examiners Initials	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, columns, lines, Where Relevant Passages or Relevant Figures Appear
	AA	4,626,075		Chemla	12-2-1986	
	AB	5,170,273		Nishio	12-8-1992	
	AC	5,191,457		Yamazaki	3-2-1993	
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	AE	5,400,322		Hunt et al	3-21-1995	
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	AH	5,479,447		Chow et al	12-26-1995	
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	AP	6,108,112		Touma	8-22-2000	
	AQ	6,233,082		Johnson	05-15-2001	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	AR	Mining the Optical Bandwidth for a Terabit per second, Alan Wilner, IEEE Spectrum, April 1997, Pages 32-41	
	AS	Record Data-Transmission Rate Reported at ECOC '96, Laser Focus World, November 1996, pages 40-42	

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Examiner Initials	Cite No.[1]	OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	
	AT	Multiple Wavelengths Exploit Fiber Capacity, Eric Lerner, Laser Focus World, July 1997, pages 119-125	
	AU	Advances in Dense WDM push diode-laser design, Diana Zankowsky, Laser Focus World, August 1997, pages 167-171	
	AV	Multistage Amplifier Provides Gain across 80 nm, pages 22-23	
	AW	Optical Switching Promises cure for telecommunications logjam, Jeff Hecht, Laser Focus World, September 1998, pages 69-72	
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	AY	WDM Local Area Networks, Kazovsky et al., IEEE LTS, May 1992, pages 8-15	
	AZ	Optical Switches Ease Bandwidth Crunch, Europhotonics, Rien Flipse, August/September 1998, pages 44-45	
	BA	Speed Demons: Is 'Faster' Better and Cheaper? Stephanie Weiss, Photonics Spectra, February 1999, pages 96-102	
	BB	Wavelength Lockers Keep Lasers in Line, Ed Miskovic, Photonics Spectrra, February 1999, pages 104-110	
	BC	Optical Switches Pursue Crossconnect Markets, Hassaun Jones-Bey, Laser Focus World, May 1998, pages 153-162	
	BD	Demand Triggers Advances in Dense WDM Components, Raymond Nering, Optoelectronics World, September 1998, pages S5-S8	
	BE	Optical Networks, Hector Escobar, Photonics Spectra, December 1998, pages 163-167	

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	BF	Ultrafast Optical Switch Unveiled, Photonics Spectra, Michael Wheeler, December 1998, page 42	
	BG	Data Express, Gigabit Junction with the Next-Generation Internet, John Collins et al, IEEE Spectrum, February 1999, pages 18-25	
	BH	Designing Broaband Fiber Optic Communications Systems, Juan Lam, Communication Systems Design, February 1999	
	BI	Terabit-Transmission Demonstrations make a splash at OFC '96, Laser Focus World, April 1996, page 13	
	BJ	Multigigabit Networks: The Challenge, Claude Rolland et al., IEEE LTD, May 1992, pages 16-26	
	BK	Dirct Detection Lightwave Systems: Why Pay More? Paul Green et al., IEEE LCS, November 1990, pages 36-49	
	BL	Photonics in Switching, Scott Hinton, IEEE LTD, August 1992, pages 26-35	
	BM	Advanced Technology for Fiber Optic Subscriber Systems, Hiromu Taba et al., IEEE LTS, November 1992, pages 12-18	
	BN	Fiber Amplifiers Expand Network Capacities, Eric Lerner, Laser Focus World, August 1997, pages 85-96	
	BO	Technologies for Local-Access Fibering, Yukou Mochida, IEEE Communications Magazine, February 1994, pages 64-72	
	BP	Wavelength Assignment in Multiphop Lightwave Networks, Aura Ganz et al., IEEE Transactions on Communications, Vol. 42, No. 7, July 1994, pages 2460-2469	
	BQ	Wavelength-Division Switching Technology in Photonic Switching Systems, Suzuki et al., IEEE International Conference on Communications, ICC 1990, pages 1125-1129	

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	BR	Branch-Exchange Sequences for Reconfiguration of Lightwave Networks, Labourdette et al., IEEE Transactions on Communications, Vol. 42, No. 10, October 1994, pages 2822-2832	
	BS	Use of Delegated Tuning and Forwarding in Wavelength Division Multiple Access Networks, Auerbach et al., IEEE Transcations on Communications, Vol. 43, No. 1, January 1995, pages 52-63	
	BT	Design and Cost Performance of the Multistage WDN-PON Access Network, Guido Maier et al., Journal of Lightwave Technology, Vol. 18, No. 2, February 2000, pages 125-143	
	BU	Polarization Insensitive Widely Tunable All-Optical Clock Recovery Based on AM Mode-Locking of a Fiber Ring Laser, IEEE Photonics Technology Letters, Vol. 12, No. 2, February 2000, pages 211-213	
	BV	Ultra-High-Speed PLL-Type Clock Recovery Circuit Based on All-Optical Gain Modulation in Traveling-Wave Laser Diode Amplifier, Journal of Lightwave Technology, Vol. 11, No. 12, December 1993, pages 2123-2129	
	BW	All-Optical Networks Need Optical Switches, Jeff Hecht, Laser Focus World, May 2000, pages 189-196	
	BX	Photons at Work: Optical Networks on the Rise, Lee Goldberg, Electronic Design, March 22, 1999, pages 56-66	
	BY	Asynchronous Time Division Switching, Achille Pattavina, IEEE Communication Handbook, 1997, pages 686-700	
	BZ	Multiple Access Methods for Communications Networks, Izhak Rubin, IEEE Communications Handbook, 1997, pages 622-649	

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	CA	Combining Gratings and Filters Redues WDM Channel Spacing, Pan and Shi, OptoElectronics World, September 1998, pages S11-S17	
	CB	Picosecond-Accuracy All-Optical Bit Phase Sensing Using a Nonlinear Optical Loop Mirror, Hall et al., IEEE Photonics Technology Letters, Vol. 7, No. 8, August 1995, pages 935-937	
	CC	An Ultrafast Variable Optical Delay Technique, Hall et al., IEEE Photonics Technology Letters, Vol. 12, No. 2, February 2000, pages 208-210	
	CD	Prescaled 6.3 GHz clock recovery from 50 Gbit/s TDM Optical Signal with 50 GHz PLL using four-wave mixing in a travelling wave laser diode optical amplifier, Electronics Letters, 12 May 1994, Vol. 30, No. 10, pages 807-809	
	CE	Variable Optical delay line with diffraction limited Autoalignment, Klovekorn and Munch, Applied Optics, April 1, 1998, Vol. 37, No. 10, pages 1903-1904	
	CF	Compact 40 Gbit/s Optical Demultiplexer using a GaInAsP Optical Amplifier, Electronics Letters, November 25, 1993, Vol. 29, No. 24, pages 2115-2116	
	CG	Lucent Upgrades WaveStar to 320-Channel, 800-Gb/s Transmission; Chalmers Develops 49-dB Optical Parametric Amplifier, Photonics Spectra, June 2000, page 46	
	CH	Bit-Rate Flexible All-Optical Demultiplexing Using a Nonlinear Optical Loop Mirror, Patrick et al., Electronics Letters, April 15, 1993, Vol. 29, No. 8, pages 702-703	
	CI	All-Optical High Speed Dumultiplexing with a Semiconductor Laser Amplifier in a Loop Mirror Configuration, Eiselt et al., Electronics Letters, June 24, 1993, Vol. 29, No. 13, pages 1167-1168	
	CJ	Optical Amplifiers Revolutionize Communications, Laser Focus World, September 1998, pages 28-32	

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Complete if Known	
Application Number	10/057,991
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	CK	Single Interferometer Demplitiplexes 40 Gbit/s Optical-Time-Division-Multiplexed Signal, Laser Focus World, November 1999, page 11	
	CL	Fiber-Optic Chips Multiplex 16 T1/E1 Channels Over One Cable, Electronic Design, April 17, 2000, page 46	
	CM	Analysis and Dimensioning of Switchless Networks for Single-Layer Optical Architecture, Binetti et al., Journal of Lightwave Technology, Vol. 18,. No. 2, February 2000, pages 144-153	
	CN	100-Gbit/s Bitwise Logic, Hall et al., MIT Lincoln Laboratory, Optics Letters, Vol. 23, No. 16, August 15, 1998, pages 1271-1273	
	CO	An Optical Technique for Bit and Packet Synchronization, Blixt and Bowers, IEEE Photonics Technology Letters, Vol. 7, No. 1, January 1995, pages 123-125	
	CP	Double-Spreading Modulation Scheme Picks up Where CDMA and TDMA Leave Off, Electronics Designs, July 10, 2000, pages 28-32	
	CQ	Transmission of a True Single Polarisation 40 Gbit/s Soliton Data Signal Over 205km Using a Stabilised Erbium Fibre Ring Laser and 40 GHz Electronic Timing Recovery, Ellis et al., Electronic Letters, Vol. 29, No. 11, May 27, 1993, pages 990-992	
	CR	Time-Stretch Methods Capture Fast Waveforms, Jalali et al., Microwaves & RF, April 1999, pages 62-69	
	CS	The Fiber-Optic Subscriber Network in Japan, Wakui, IEEE Communications Magazine, February 1994, pages 56-63	
	CT	A Justification for a Variable Bandwidth Allocation Methodology for SONET Virtually Concatenated SPEs, Nevin JONES and Trevor WILSON, Lucent Technologies, July 10-14, 2000	
	CU	Higher Order SONET Virtual Concatenation, Nevin JONES, Paul LANGNER and Charles WEBB, Lucent Technologiies, April 9, 1999	

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	CV	The Communications Handbook, 1997, Chapter 39, pages 542-553	
	CW	The Communications Handbook, 1997, Chapter 40, pages 554-564	
	CX	Architectural and Technological Issues for Future Optical Internet Networks, Listanti, et al., IEEE Communications Magazine, September 2000, pages 82-92	
	CY	IP Over Optical Networks: Architectural Aspects, Rajagopalan, et al., IEEE Communications Magazine, September 2000, pages 94-102	
	CZ	Labeled Optical Burst Switching for IP-over-WDM Integration, Chunming Qiao, IEEE Communications Magazine, September 2000, pages 104-114	
	DA	Approaches to Optical Internet Packet Switching, Hunter, et al., IEEE Communications Magazine, September 2000, pages 116-122	
	DB	Photonic Switches: Fast, but Functional? McCarthy, Photonics Spectra, March 2001, pages 140-150	
	DC	The Communications Handbook, Gibson, A CRC Handbook Published in Cooperation with IEEE Press, 1997 CRC Press, Inc., pages 513-528	
	DD	A Proposed Link Capacity Adjustment Scheme (LCAS) for SONET Virtually Concatenated SPEs, Jones, et al., Lucent Technologies, T1X1.5/200-199, pages 1-30	
	DE	Fiber-based components meets the needs of next-generation amplifiers, Bourgeois, WDM Solutions, March 2001, pages 67-74 www.optoelectronics-world.com	
	DF	Spectral Equalization Keeps Optical Signals in Line, Ashmead, WDM Solutions, January 2001, pages 32-38 www.optoelectronics-world.com	
	DG	Keep Your Photons in Line, Wesson et al., Photonics Spectra, September 1999, pages 102-108	
	DH	Router Promises Faster Switching, Robinson, Photonics Technology World, Photonics Spectra, August 2001, page 24	

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	DI	On a Dynamic Wavelength Assignment Algorithm for Wavelength Routed All–Optical Networks, Andrei G. Stoica, et al., Optical Networks Magazine, January/February 2002, pages 68 – 80	
	DJ	XOR: A Logical Choice of All-Optical Networks, Perry J. Greenbaum, IEEE Photonics Technology Letters, Vol. 13, July 2001, pp 750-752, Photonics Spectra, November 2001, pages 30 and 31	
	DK	On Adaptive Routing in Wavelength-Routed Networks, Ching-Fang Hsu, et al., Optical Networks Magazine, January/February 2002, pages 15 – 24	
	DL	A Comparative Study of Distributed Protocols for Wavelength Reservation in WDM Optical Networks, Debashis Saha, Optical Networks Magazine, January/February 2002, pages 45 52	
	DM	A Framework for Unified Traffic Engineering in IP over WDM Networks, Jinhan Song, et al., Optical Networks Magazine, November/December 2001, pages 28 – 33	
	DN	Optimization of Wavelength Allocation in WDM Optical Buffers, Franco Callegati, Optical Networks Magazine, November/December 2001, pages 66 – 72	
	DO	A Simple Dynamic Integrated Provisioning/Protection Scheme in IP over WDM Networks, Yinghua Ye, et al., IEEE Communications Magazine, November 2001, pages 174 – 182	
	DP	Photonic Packet Switching and Optical Label Swapping, Daniel J. Blumenthal, Optical Networks Magazine, November/December 2001, pages 54 – 65	
	DQ	Intelligent Optical Networking for Multilayer Survivability, Sophie de Maesschalck, et al., IEEE Communications Magazine, January 2002, pages 42 – 49	

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